## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|-------|------|---|---|---------------------|---------|---------------------|
| L1    | 344  | optical and (variable with thickness with filter)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR                  | ON      | 2008/08/22<br>10:08 |
| L2    | 596  | 385/45.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2008/08/22<br>10:08 |
| L3    | 169  | L2 and filter\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR                  | ON      | 2008/08/22<br>10:08 |
| L4    | 229  | (planar and circuit and optical and wavelength and filter).clm.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR                  | ON      | 2008/08/22<br>10:08 |
| S1    | 111  | (("6839492") or<br>("6802188") or<br>("6714711") or<br>("6221028") or<br>("6594011") or<br>("6650810") or<br>("6833920") or<br>("6208776") or<br>("6052179") or<br>("6014215") or<br>("6201912")).PN. | US-PGPUB;<br>USPAT  | OR                  | OFF     | 2005/03/22<br>12:07 |
| S2    | 50   | ((optical with (fiber or fibre)) same ferrule)) and (detector or photodiode) and (source or laser or diode or laserdiode) and (branching with (waveguide or fiber or fibre)                           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR                  | ON      | 2005/04/04<br>11:09 |

| <b>S</b> 3 | 32 | ((optical with (fiber or fibre)) same ferrule)) and (detector or photodiode) and (source or laser or diode or laserdiode) and (branching with (waveguide or fiber or fibre) and (wavelength same (filter or grating or diffractive or mirror))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR       | ON | 2005/03/22<br>12:15 |
|------------|----|---|---|----------|----|---------------------|
| S4         | 46 | (optical with (fiber or fibre)) and (("v" adj (block or groove)) or v \$block or v\$groove) and (detector or photodiode) and (source or laser or diode or laserdiode) and (branching with (waveguide or fiber or fibre)) and (wavelength same (filter or grating or diffractive or mirror))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB |          | ON | 2005/03/22<br>12:20 |
| 55         | 98 | ("6175670" "6215917" "6332719" "6363183" "6697552" "6823103" "6839492" "6853769" "6229938" "5497264" "6112000" "6282344" "6311004" "6399968" "6842565" "5951543" "6215917" "6241399" "6264377" "6327407" "6350064" "6390686" "6394663" "6456767" "6488415" "6504971" "6517257" "6522812" "6547451" "6608947" "6669378" "6690860" "6697553" "6724799" "6850670" "6868210" "6690454" "6728449" "6310704" "6231244" "6215945" "6215945" "6804440" "5940548" "6228670" "5694496" "5901259" "6072920"). pn. ("6083843" "6115514" "6415082" | USPAT   | 00<br>00 | ON | 2005/03/31<br>16:49 |

| S11 | 14 | ("5479547"  <br>"5521993"  <br>"5579154").PN. OR<br>("5799120").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR        | ON | 2005/03/31<br>17:02 |
|-----|----|--|---|-----------|----|---------------------|
| S12 | 9  | ("4243297"  <br>"4750799"  <br>"5425118"  <br>"5479547"  <br>"5633962"  <br>"5799120"  <br>"6243516"  <br>"6374021"  <br>"6480639").PN. OR<br>("6684012").URPN.  | US-PGPUB;<br>USPAT; USOCR   | ion<br>OR | ON | 2005/03/31<br>17:03 |
| S13 | 11 | ("4210923"  <br>"4926545"  <br>"4974041"  <br>"5900763").PN. OR<br>("6480639").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR        | ON | 2005/03/31<br>17:03 |
| S14 | 10 | ("20030031443"   "20030044159"   "20030049003"   "20040197051"   "5416861"   "6236784"   "6288833"   "6356692"   "6788864"   "6801698").PN. OR ("6868210").URPN. | US-PGPUB;<br>USPAT; USOCR   | MOR       | ON | 2005/04/01<br>08:30 |
| S15 | 0  | ((optical with (fiber or<br>fibre)) same ferrule)<br>and ((detector or<br>photodiode) with on<br>with ferrule)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR        | ON | 2005/04/04<br>11:10 |
| S16 | 80 | ((optical with (fiber or<br>fibre)) same ferrule)<br>and ((detector or<br>photodiode) with (on<br>or attach\$2 or surface)<br>with ferrule)                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR        | ON | 2005/04/04<br>11:11 |
| S17 | 23 | ((optical with (fiber or fibre)) same ferrule) and ((detector or photodiode) with (on or attach\$2) with ferrule)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR        | ON | 2005/04/04<br>11:11 |

| S18 | 23 | ((optical with (fiber or<br>fibre)) same ferrule)<br>and ((detector or<br>photodiode) with ("on"<br>or attach\$2) with<br>ferrule)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04<br>11:11 |
|-----|----|--|---|----|----|---------------------|
| S19 | 29 | ((detector or<br>photodiode) with (on<br>or attach\$2) with<br>ferrule)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04<br>11:11 |
| S20 | 74 | (US-20010010742-\$ or US-20010019648-\$ or US-20010028768-\$ or US-20010053262-\$ or US-20030095744-\$ or US-20030210866-\$). did. or (US-4468085-\$ or US-4790615-\$ or US-4790615-\$ or US-5005935-\$ or US-5005935-\$ or US-5010346-\$ or US-5088105-\$ or US-5098804-\$ or US-5098804-\$ or US-5191625-\$ or US-5479547-\$ or US-5479547-\$ or US-5479547-\$ or US-5521993-\$ or US-5579154-\$ or US-5579154-\$ or US-5694496-\$ or US-5694496-\$ or US-5694496-\$ or US-5894535-\$ or US-6949928-\$ or US-6112000-\$ or US-6195478-\$ or US-6243516-\$ or US-6243516-\$ or US-6243516-\$ or US-6288833-\$ or US-6332719-\$ or US-6332719-\$ or US-6332719-\$ or US-6356692-\$ or US-6356692-\$ or US- | US-PGPUB;<br>USPAT  | OR | ON | 2005/04/04 11:54    |

|     |   | 6374021-\$ or US-6390686-\$ or US-6394663-\$ or US-6408121-\$ or US-6415082-\$ or US-6438291-\$ or US-6480639-\$ or US-6480647-\$ or US-6480647-\$ or US-6496523-\$ or US-6597680-\$ or US-6542670-\$ or US-6542670-\$ or US-6542670-\$ or US-6641308-\$ or US-6641308-\$ or US-6647184-\$ or US-6669378-\$ or US-6744945-\$ or US-6754403-\$ or US-6754403-\$ or US-6754403-\$ or US-675439-\$ or US-6839492-\$ or US-6839492-\$ or US-6863449-\$ or US-6873767-\$ or US-6873767-\$ or US-5699187-\$ or US-5943461-\$ or US-5943461-\$ or US-5943461-\$ or US-5748143-\$).did. |   |    |     |                     |
|-----|---|---|---|----|-----|---------------------|
| S21 | 7 | S20 and (tapered with waveguide)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/04/04<br>11:54 |
| S22 | 4 | (("6941042") or<br>("6696682") or<br>("6650810") or<br>("6052179")).PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2005/11/07<br>14:11 |

| S23 | 74 | (US-20010010742-\$ or             | US-PGPUB: | OR  | ON  | 2005/11/07                              |
|-----|----|-----------------------------------|-----------|-----|-----|---|
| J_U |    | US-20010010742 \( \text{OS} \) or | USPAT     |     | 011 | 15:31                                   |
|     |    | US-20010013048 \$ or              | 001 71    |     |     | 10.01                                   |
|     |    | •                                 |           |     |     |   |
|     |    | US-20010053262-\$ or              |           |     |     |   |
|     |    | US-20030095744-\$ or              |           |     |     |   |
|     |    | US-20030210866-\$ or              |           |     |     |   |
|     |    | US-20040105677-\$).               |           |     |     |   |
|     |    | did. or (US-4468085-\$            |           |     |     |   |
|     |    | or US-4693544-\$ or               |           |     |     |   |
|     |    | US-4790615-\$ or US-              |           |     |     |   |
|     |    | 4842357-\$ or US-                 |           |     |     |   |
|     |    | 5005935-\$ or US-                 |           |     |     |   |
|     |    | 5010346-\$ or US-                 |           |     |     |   |
|     |    | 5068528-\$ or US-                 |           | i   |     |   |
|     |    | 5088105-\$ or US-                 |           |     |     |   |
|     |    | 5091986-\$ or US-                 |           |     |     |   |
|     |    | 5098804-\$ or US-                 |           |     |     |   |
|     |    | 5191625-\$ or US-                 |           |     |     |   |
|     |    | 5425118-\$ or US-                 |           |     |     |   |
|     |    | 5479547-\$ or US-                 |           |     |     |   |
|     |    | 5497438-\$ or US-                 |           |     |     |   |
|     |    | 5521993-\$ or US-                 |           |     |     |   |
|     |    | 5579154-\$ or US-                 |           |     |     |   |
|     |    | 5633962-\$ or US-                 |           |     |     |   |
|     |    | 5694496-\$ or US-                 |           |     |     |   |
|     |    | 5699187-\$ or US-                 |           |     |     |   |
|     |    | 5799120-\$ or US-                 |           |     |     |   |
|     |    | 5825951-\$ or US-                 |           |     |     |   |
|     |    | 5894535-\$ or US-                 |           |     |     |   |
|     |    | 5943461-\$ or US-                 |           |     |     |   |
|     |    | 5949928-\$ or US-                 |           |     |     |   |
|     |    | 6040934-\$ or US-                 |           |     |     |   |
|     |    | 6112000-\$).did. or (US-          |           |     |     |   |
|     |    | 6195478-\$ or US-                 |           |     |     |   |
|     |    | 6198857-\$ or US-                 |           |     |     |   |
|     |    | •                                 |           |     |     |   |
|     |    | 6215917-\$ or US-                 |           | · · |     |   |
|     |    | 6217231-\$ or US-                 |           |     |     |   |
|     |    | 6241399-\$ or US-                 |           |     |     |   |
|     |    | 6243516-\$ or US-                 |           |     |     | *************************************** |
|     |    | 6288833-\$ or US-                 |           |     |     |   |
|     |    | 6304697-\$ or US-                 |           |     |     |   |
|     |    | 6332719-\$ or US-                 |           | · · |     |   |
|     |    | 6356692-\$ or US-                 |           |     |     |   |
|     |    | 6374021-\$ or US-                 |           | ·   |     |   |
|     |    | 6390686-\$ or US-                 |           |     |     |   |
|     |    | 6394663-\$ or US-                 |           | · · |     |   |
|     |    | 6408121-\$ or US-                 |           |     |     |   |
|     |    | 6415082-\$ or US-                 |           |     |     |   |
|     |    | 6438291-\$ or US-                 |           |     |     |   |
|     |    | 6456767-\$ or US-                 |           |     |     |   |
|     |    | 6480639-\$ or US-                 |           |     |     |   |
|     |    | 6480647-\$ or US-                 |           |     |     |   |
|     |    | 6488415-\$ or US-                 |           |     |     |   |
|     | -  | 6496523-\$ or US-                 |           |     |     |   |

| S28 | 454 | (variable with thickness with filter)  | IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;                | MANAGE AND THE STATE OF THE STA | ON      | 2005/11/07<br>15:59 |
|-----|-----|--|---|--|---------|---------------------|
| S27 | 15  | S23 and (thickness with filter)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;            | OR   | ON      | 2005/11/07<br>15:58 |
| S26 | 9   | waveguide)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON      | 2005/11/07<br>16:57 |
| S25 | 6   | S23 and (((laser adj<br>diode) or "LD") with<br>"LED")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON      | 2005/11/07<br>15:44 |
| S24 | 3   | diode) with "LED")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR   | <b></b> | 2005/11/07<br>15:36 |
|     |     | 6507680-\$ or US-6527454-\$ or US-6535670-\$ or US-6542670-\$ or US-6547451-\$ or US-6641308-\$).did. or (US-6647184-\$ or US-6665475-\$ or US-6669378-\$ or US-6718076-\$ or US-6744945-\$ or US-6754403-\$ or US-6754403-\$ or US-6754403-\$ or US-6839492-\$ or US-6863449-\$ or US-6868210-\$ or US-6873767-\$).did. |   | лининин ден ден ден ден ден ден ден ден ден де   |         |                     |

| S29         | 238 | optical and (variable<br>with thickness with<br>filter)                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>15:59 |
|-------------|-----|--|---|----|----|---------------------|
| S30         | 54  | (optical with multiplex<br>\$3) and (variable with<br>thickness with filter) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>15:59 |
| S31         | 3   | S23 and (dichroic)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>16:13 |
| S32         | 5   | S23 and (wavelength with absorption)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>16:58 |
| S33         | 14  | S23 and (absorption)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>17:15 |
| S34         | 1   | S23 and (v\$groove with angle)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>17:18 |
| <b>S</b> 35 | 44  | (v\$groove with ("45"<br>near2 angle))                                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>17:42 |
| <b>S</b> 36 | 17  | optical and (v\$groove<br>with ("45" near2<br>angle))                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/11/07<br>17:38 |

| S37 | 7   | ("Si" or silicon) with (near\$infrared near2 transparent)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR   | ON | 2005/11/07<br>17:38 |
|-----|-----|---|---|------|----|---------------------|
| S38 | 12  | (v\$groove with (glass<br>near2 cover))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | woOR | ON | 2005/11/07<br>17:42 |
| S39 | 29  | ("4693544"  <br>"4726012"  <br>"4789214"  <br>"4813756"  <br>"5031984"  <br>"5098804"  <br>"5790615").PN. OR<br>("5479547").URPN. | US-PGPUB;<br>USPAT; USOCR   | WOOR | ON | 2006/07/05<br>12:58 |
| S40 | 550 | 385/45.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/02/22<br>10:37 |
| S41 | 146 | S40 and filter\$3   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR   | ON | 2007/02/26<br>08:43 |
| S42 | 17  | ("5479547"  <br>"5521993"  <br>"5579154").PN. OR<br>("5799120").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR   | ON | 2007/02/22<br>10:55 |
| S43 | 6   | ("5799120"  <br>"5825951"  <br>"6175670"  <br>"6243516").PN. OR<br>("6480647").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR   | ON | 2007/02/22<br>12:59 |

| S44 | 83                                      | (US-20010010742-\$ or    | •     | OR  | ON | 2007/02/26 |
|-----|---|--------------------------|-------|-----|----|------------|
|     |   | US-20010053265-\$ or     | USPAT | i   |    | 08:42      |
|     |   | US-20010026660-\$ or     |       |     |    |            |
|     |   | US-20030095744-\$ or     |       |     |    |            |
|     |   | US-20010028768-\$ or     |       |     |    |            |
|     |   | US-20030210866-\$ or     |       |     |    |            |
|     | i                                       | US-20010053262-\$ or     |       |     |    |            |
|     |   | US-20010019648-\$ or     |       |     |    |            |
|     |   | US-20040105677-\$ or     |       |     |    |            |
|     |   | US-20050018993-\$).      |       |     |    |            |
|     |   | did. or (US-6527454-\$   |       |     |    |            |
|     |   | or US-5010346-\$ or      |       |     |    |            |
|     |   | US-5191625-\$ or US-     |       |     |    |            |
|     |   | 6744945-\$ or US-        |       |     |    |            |
|     |   | 6873767-\$ or US-        |       |     |    |            |
|     |   | 6950582-\$ or US-        |       |     |    |            |
|     |   | 5799120-\$ or US-        |       |     |    |            |
|     |   | 5091986-\$ or US-        |       |     |    |            |
|     |   | 6507680-\$ or US-        |       |     |    |            |
|     |   | 6665475-\$ or US-        |       |     |    |            |
|     |   | 5699187-\$ or US-        |       |     |    |            |
|     |   | 5949928-\$ or US-        |       |     |    |            |
|     |   | 6195478-\$ or US-        |       |     |    |            |
|     |   | 6748143-\$ or US-        |       |     |    |            |
|     |   | 6775439-\$ or US-        |       |     |    |            |
|     |   | 5179606-\$ or US-        |       |     |    |            |
|     |   | 6215917-\$ or US-        |       |     |    |            |
|     |   | 6480639-\$ or US-        |       |     |    |            |
|     |   | 6374021-\$ or US-        |       |     |    |            |
|     |   | 5425118-\$ or US-        |       |     |    |            |
|     |   | 6496523-\$ or US-        |       |     |    |            |
|     |   | 6438291-\$ or US-        |       |     |    |            |
|     |   | 6394663-\$ or US-        |       |     |    |            |
|     | *************************************** | 6241399-\$ or US-        |       |     |    |            |
|     |   | 5497438-\$ or US-        |       |     |    |            |
|     |   | 6408121-\$).did. or (US- |       |     |    |            |
|     |   | 6304697-\$ or US-        |       |     |    |            |
|     |   | 4468085-\$ or US-        |       |     |    |            |
|     |   | 6112000-\$ or US-        |       |     |    |            |
|     |   | 5361157-\$ or US-        |       |     |    |            |
|     |   | 6456767-\$ or US-        |       |     |    |            |
|     |   | 6684012-\$ or US-        |       |     |    |            |
|     |   | 6040934-\$ or US-        |       |     |    |            |
|     |   | 6647184-\$ or US-        |       |     |    |            |
|     |   | 4844573-\$ or US-        |       |     |    |            |
|     |   | 6868210-\$ or US-        |       |     |    |            |
|     |   | 6760510-\$ or US-        |       | · · |    |            |
|     |   | 5479547-\$ or US-        |       |     |    |            |
|     |   | 6542670-\$ or US-        |       | ·   |    |            |
|     | -                                       | 6243516-\$ or US-        |       |     |    |            |
|     |   | 4693544-\$ or US-        |       |     |    |            |
|     |   | 6356692-\$ or US-        |       | · · |    |            |
|     |   | 6288833-\$ or US-        |       |     |    |            |
|     |   | 5068528-\$ or US-        |       |     |    |            |

|             |     | 5005935-\$ or US- 6754403-\$ or US- 6839492-\$ or US- 5633962-\$ or US- 6547451-\$ or US- 6641308-\$ or US- 4790615-\$ or US- 5088105-\$ or US- 6198857-\$).did. or (US- 6718076-\$ or US- 6535670-\$ or US- 6332719-\$ or US- 6332719-\$ or US- 6390686-\$ or US- 6390686-\$ or US- 5946435-\$ or US- 5946435-\$ or US- 5946435-\$ or US- 55946496-\$ or US- 5579154-\$ or US- 6219481-\$ or US- 5521993-\$ or US- 6217231-\$ or US- 5825951-\$ or US- 5943461-\$ or US- 5943461-\$ or US- 5943461-\$ or US- 6480647-\$).did. |   |    |    |                     |
|-------------|-----|--|---|----|----|---------------------|
| <b>S</b> 45 | 71  | S44 and filter\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2007/02/26<br>08:43 |
| S46         | 587 | 385/45.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/04/08<br>16:37 |

8/ 22/ 08 10:09:58 AM

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